	Application No.	Applicant(s)
Notice of Allowability	09/974,956	HIRATA, MASARU
	Examiner	Art Unit
	Tesfaldet Bocure	2611
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s	this application. If not included inication will be mailed in due course. THIS
2. The allowed claim(s) is/are 1,2,4 and 5, renumbered as 1-4	<u>4</u> .	
 Acknowledgment is made of a claim for foreign priority una)	be been received. been received in Applicatio	n No
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date	,	
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the		
6. DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Su	formal Patent Application (PTO-152) ummary (PTO-413), Mail Date
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0		Amendment/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material		Statement of Reasons for Allowance ing correction 11/02/05 VESFALDET BOOUSE DOI: NAME OF THE PARTY FAMILIANCE
		PRIMARY EXPLAINMER

U.S. Patent and Trademark Office PTOL-37 (Rev. 7-05)

Notice of Allowability Part of Paper Notical Date 20060804

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Paul Esatto (Reg. # 30,749) on Aug. 3, 2006.

The application has been amended as follows:

In the claim:

Claim 4, line 2, "claim 3" has been changed to read as---claim 1---.

Remarks:

The above Examiner's Amendment was made to change the dependency of claim 4 form cancelled claim 3 to claim 1.

2. The following is an examiner's statement of reasons for allowance: The claimed subject matter in claims 1,2,4 and 5 is allowable because the arts of record fail to teach or fairly suggest the claimed "A mobile station in a CDMA communication system, the mobile station comprising:

a plurality of finger sections in each of which each of plural radio waves being arrived

Application/Control Number: 09/974,956

Art Unit: 2611

from a base station through a plurality of paths is inversely spread to regenerate data from said base station; and

a finger allocating section for allocating a path timing corresponding to each peak position of said plurality of radio waves to each of said plurality of finger sections, each of said plurality of radio waves being inversely spread in a path tracking range among segments positioned before and after the path timing allocated by said finger allocating section, said path tracking range <u>in each of said plurality of finger sections being</u>

variably determined based on the respective distances between peak positions of said plurality of radio waves. said path tracking range being broadened when said distances are large, and said path tracking range being independently determined for each of said plurality of finger section as in claim 1 and

"A method for allocating a finger of a mobile station in CDMA communication system involving a plurality of finger sections for spreading inversely each of a plurality of radio waves being arrived from a base station through a plurality of paths to generate data from said base station, comprising the steps of:

detecting each peak of said plurality of radio waves to allocate path timing corresponding to each peak of the positions detected to each of said plurality of finger sections;

deciding a path tracking range independently for each of said plurality of finger sections, said plurality of radio waves being inversely spread within said path tracking range among segments positioned before and after said path timing in each of said. plurality of

Art Unit: 2611

finger sections, said path tracking range in each of said plurality of finger sections
being variably determined based on the respective distances between peak
positions of said plurality of radio waves, said path tracking range being
broadened when said distances are large, and said path tracking range being
narrowed when said distances are small as in claim 5."

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US patent Publication Number US2006/0098719 and US patent number 6,873,648 issued to Baltersee et al. and Atarius et al. respectively disclose a spread spectrum receiver having a means for tracking the peak of each received waveforms from the Rake fingers and a finger allocating in response to the received correlated peak values.
- 4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tesfaldet Bocure whose telephone number is (571) 272-3015. The examiner can normally be reached on Mon-Thur (7:30a-5:00p) & Mon.-Fri (7:30a-5:00p).

Application/Control Number: 09/974,956

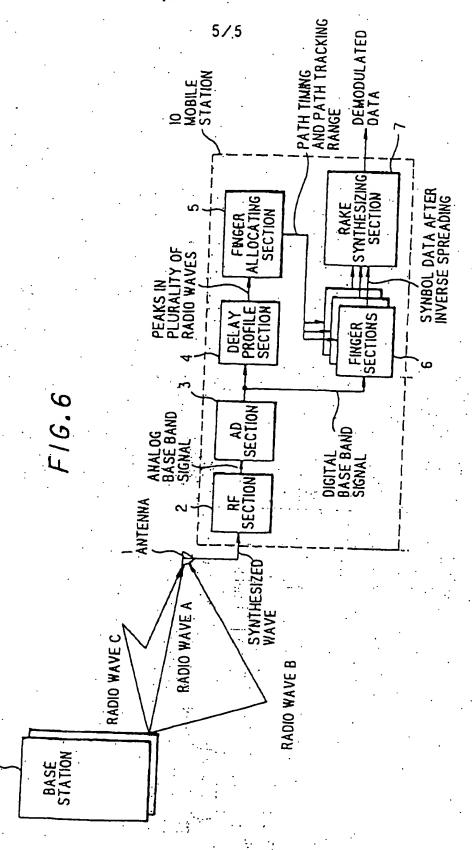
Art Unit: 2611

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jayanti (Jay) Patel can be reached on (571) 272-2988. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

T.Bocure

Appln. No. 09/974,956 Amd. Dated: November 8, 2005 Reply to Office Action of August 8, 2005 Replacement Sheet



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